

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730602

Luminaire Tested: **HBLED-LD5-18SE-N-CLI-UNV-L840**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18SE-N-CLI-UNV-L840
Description: 18000 LUMEN, SE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16691.0 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

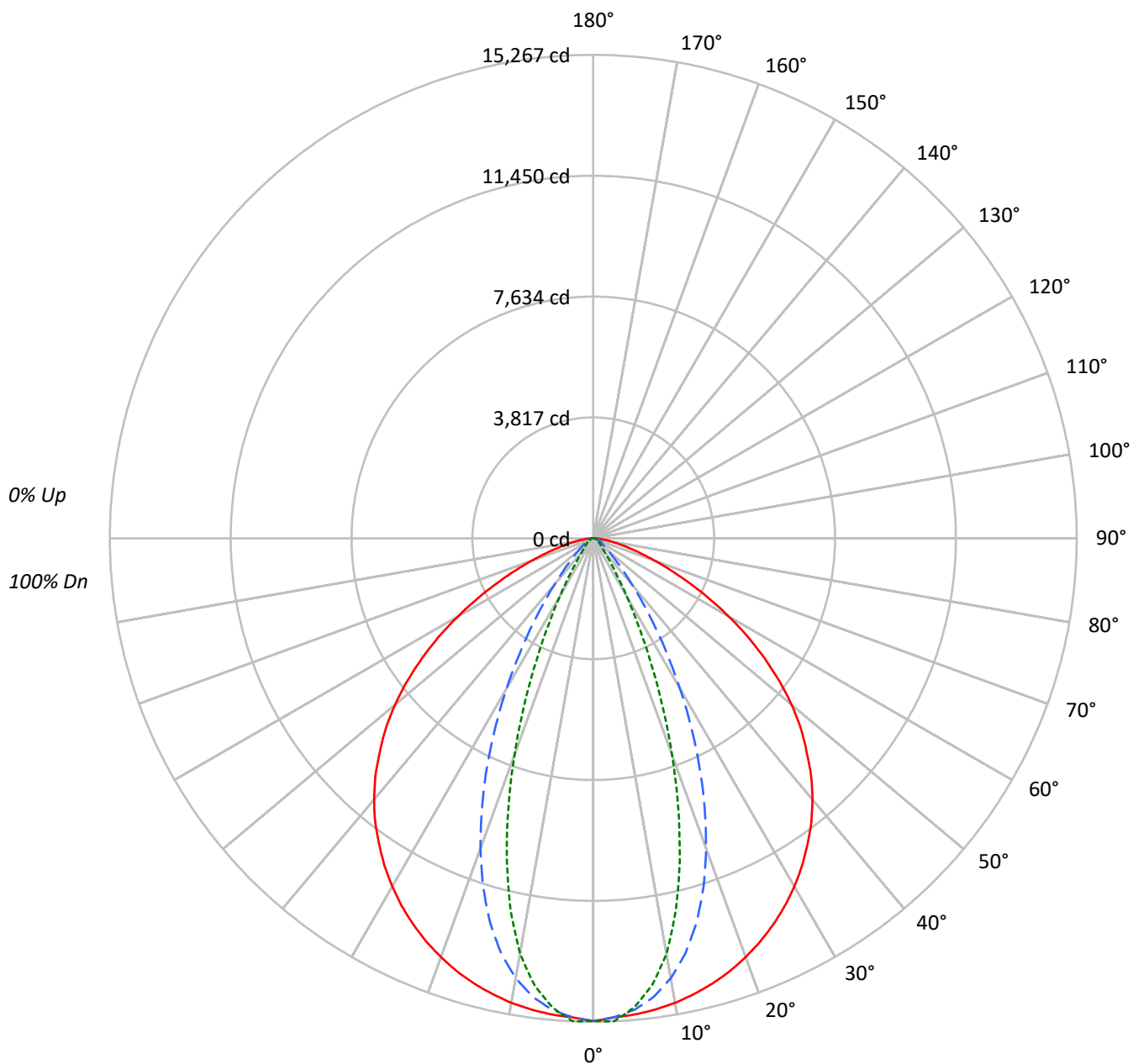
Input Watts (W): 114.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24616	24616	24616
5°	24468	24225	24097
10°	24427	23128	21824
15°	24329	21023	17625
20°	24183	17888	12492
25°	23966	14105	7548
30°	23675	10180	3879
35°	23248	6655	1937
40°	22696	3998	1131
45°	21754	2387	845
50°	20518	1561	710
55°	18569	1184	619
60°	15958	1009	565
65°	12836	920	534
70°	9670	986	531
75°	7113	937	546
80°	5204	933	598
85°	3898	1132	773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1404.1	8.4
10°-20°	3493.0	20.9
20°-30°	3869.1	23.2
30°-40°	3099.8	18.6
40°-50°	2212.9	13.3
50°-60°	1421.3	8.5
60°-70°	770.3	4.6
70°-80°	329.2	2.0
80°-90°	91.3	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8766.2	52.5
0°-40°	11866.0	71.1
0°-60°	15500.2	92.9
0°-90°	16691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15246	15246	15246	15246	15246	
5°	15097	15153	14946	14899	14868	###
15°	14555	14099	12577	11114	10544	4107
25°	13453	11862	7918	5159	4237	6198
35°	11795	8531	3377	1362	983	7375
45°	9527	4925	1046	445	370	7343
55°	6597	2202	421	259	220	5879
65°	3360	904	241	166	140	3364
75°	1140	331	150	104	88	1267
85°	210	88	61	51	42	257
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15246.0	15246.0	15246.0	15246.0	15246.0
2.5°	15145.6	15240.4	15138.4	15201.8	15266.9
5°	15096.6	15152.9	14946.5	14899.1	14867.8
7.5°	15011.5	14995.5	14607.7	14356.3	14235.0
10°	14899.1	14769.0	14106.5	13554.1	13311.6
12.5°	14738.5	14470.3	13428.0	12457.9	12046.8
15°	14554.6	14099.3	12576.8	11114.5	10544.4
17.5°	14334.6	13665.7	11559.4	9673.9	8921.5
20°	14074.4	13142.1	10411.1	8143.4	7270.5
22.5°	13783.8	12538.3	9181.7	6617.6	5681.4
25°	13452.9	11862.1	7917.7	5158.6	4236.7
27.5°	13095.6	11111.3	6661.0	3854.5	3013.7
30°	12698.8	10298.7	5460.5	2779.3	2080.6
32.5°	12266.0	9434.6	4345.1	1954.5	1423.0
35°	11794.7	8531.2	3376.6	1361.9	982.9
37.5°	11312.0	7609.4	2550.4	962.8	705.1
40°	10768.4	6690.7	1896.7	705.1	536.4
42.5°	10184.6	5789.7	1403.7	542.8	434.4
45°	9527.0	4924.9	1045.6	444.9	370.2
47.5°	8889.4	4118.7	794.2	379.0	322.0
50°	8168.3	3391.2	621.5	330.9	282.6
52.5°	7403.0	2751.1	504.3	291.5	248.9
55°	6596.7	2201.8	420.7	258.6	220.0
57.5°	5780.1	1744.1	359.8	230.4	196.0
60°	4941.8	1394.8	312.4	206.4	175.0
62.5°	4123.5	1115.4	273.0	185.5	156.6
65°	3359.8	904.2	240.9	166.2	139.7
67.5°	2653.9	714.7	224.9	149.3	126.1
70°	2048.4	556.5	208.8	133.3	112.4
72.5°	1552.2	427.2	184.7	118.8	99.6
75°	1140.2	330.9	150.2	104.4	87.5
77.5°	815.9	254.6	122.1	90.7	75.5
80°	559.7	189.5	100.3	77.9	64.3
82.5°	363.8	134.1	81.1	64.3	53.0
85°	210.4	87.5	61.1	50.6	41.7
87.5°	90.7	48.1	41.7	37.8	32.1
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)